

CHRISTINA RIVER BASIN

01478245 WHITE CLAY CREEK NEAR STRICKERSVILLE, PA

LOCATION.--Lat 39°44'51", long 75°46'15", Chester County, Hydrologic Unit 02040205, on right bank 0.1 mi downstream from West Branch White Clay Creek, in the White Clay Creek State Preserve, and 1.5 mi northeast of Strickersville.

DRAINAGE AREA.--59.2 mi².

PERIOD OF RECORD.--August 1996 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 120 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges and those greater than 430 ft³/s, which are poor. Several measurements of water temperature were made during the year. Satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 1,800 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Mar. 22	0615	*4,220	*10.50	No other peak greater than base discharge.			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	45	52	53	e72	85	107	84	61	55	55	42
2	49	69	49	54	e60	82	104	87	59	48	47	40
3	44	117	49	55	e55	77	104	81	55	46	45	44
4	63	55	48	e78	e53	75	142	79	54	72	45	41
5	165	50	47	e160	e52	e76	109	78	54	49	42	32
6	65	48	93	71	e50	e74	99	79	95	43	38	30
7	52	47	68	65	e49	70	94	74	84	42	41	29
8	48	45	53	60	e49	71	93	72	61	39	37	29
9	46	45	49	60	e48	70	191	69	57	39	35	29
10	212	46	78	96	e47	69	126	100	53	39	34	29
11	101	45	79	99	e64	84	106	134	51	37	33	28
12	62	43	56	68	e76	135	103	77	50	36	32	28
13	54	44	63	66	e58	85	96	75	57	35	32	46
14	50	44	389	57	e90	76	94	101	61	38	56	31
15	47	43	180	e54	e160	72	98	71	58	47	45	118
16	47	42	101	e52	e125	76	130	67	59	142	36	38
17	48	41	80	e50	e130	286	210	74	55	88	33	32
18	58	41	71	e49	e96	109	199	69	57	52	34	31
19	47	42	66	e54	402	92	129	107	55	54	34	172
20	94	42	71	e52	195	85	110	93	50	63	31	137
21	73	43	92	e49	131	612	152	87	49	45	29	49
22	56	42	66	e48	109	1860	212	86	92	42	28	39
23	71	44	60	e47	109	241	124	96	53	39	e28	37
24	55	52	e58	e47	111	179	108	124	47	39	e29	38
25	50	59	e56	e46	109	157	101	81	45	42	29	47
26	48	75	e55	e68	101	142	98	71	46	175	27	354
27	46	351	55	e55	92	139	97	68	44	163	45	94
28	45	85	54	e52	129	366	97	72	107	65	126	59
29	45	63	53	e51	93	144	91	73	139	53	42	48
30	44	56	53	e60	---	124	87	65	99	50	38	44
31	45	---	54	e88	---	113	---	63	---	60	47	---
TOTAL	1993	1864	2398	1964	2915	5926	3611	2557	1907	1837	1253	1815
MEAN	64.3	62.1	77.4	63.4	101	191	120	82.5	63.6	59.3	40.4	60.5
MAX	212	351	389	160	402	1860	212	134	139	175	126	354
MIN	44	41	47	46	47	69	87	63	44	35	27	28
CFSM	1.09	1.05	1.31	1.07	1.70	3.23	2.03	1.39	1.07	1.00	.68	1.02
IN.	1.25	1.17	1.51	1.23	1.83	3.72	2.27	1.61	1.20	1.15	.79	1.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)

MEAN	65.3	64.0	97.9	94.0	98.6	138	103	73.4	50.2	38.9	43.8	84.0
MAX	143	119	246	134	134	191	126	90.3	64.4	59.3	96.2	231
(WY)	1997	1997	1997	1997	1997	2000	1997	1998	1998	2000	1996	1999
MIN	25.8	29.2	26.6	63.4	64.3	83.6	68.2	44.9	27.7	21.0	23.2	20.6
(WY)	1998	1999	1999	2000	1999	1999	1999	1999	1999	1999	1999	1998

e Estimated.

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01478245 WHITE CLAY CREEK NEAR STRICKERSVILLE, PA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000	
ANNUAL TOTAL	26465.5		30040		78.1	
ANNUAL MEAN	72.5		82.1		105	
HIGHEST ANNUAL MEAN					1997	
LOWEST ANNUAL MEAN					62.4	
HIGHEST DAILY MEAN	e4930	Sep 16	1860	Mar 22	4930	Sep 16 1999
LOWEST DAILY MEAN	8.9	Aug 19	27	Aug 26	8.9	Aug 19 1999
ANNUAL SEVEN-DAY MINIMUM	10	Aug 2	a29	Aug 20	10	Aug 2 1999
INSTANTANEOUS PEAK FLOW			b4220	Mar 22	b14400	Sep 16 1999
INSTANTANEOUS PEAK STAGE			10.50	Mar 22	c16.71	Sep 16 1999
INSTANTANEOUS LOW FLOW			19	Aug 24	8.3	Aug 7 1999
ANNUAL RUNOFF (CFSM)	1.22		1.39		1.32	
ANNUAL RUNOFF (INCHES)	16.63		18.88		17.93	
10 PERCENT EXCEEDS	93		130		135	
50 PERCENT EXCEEDS	48		58		54	
90 PERCENT EXCEEDS	16		38		23	

- a Computed using estimated daily discharges.
- b From rating curve extended above 426 ft³/s on basis of runoff comparison with nearby station.
- c From floodmark in gage.
- e Estimated.

